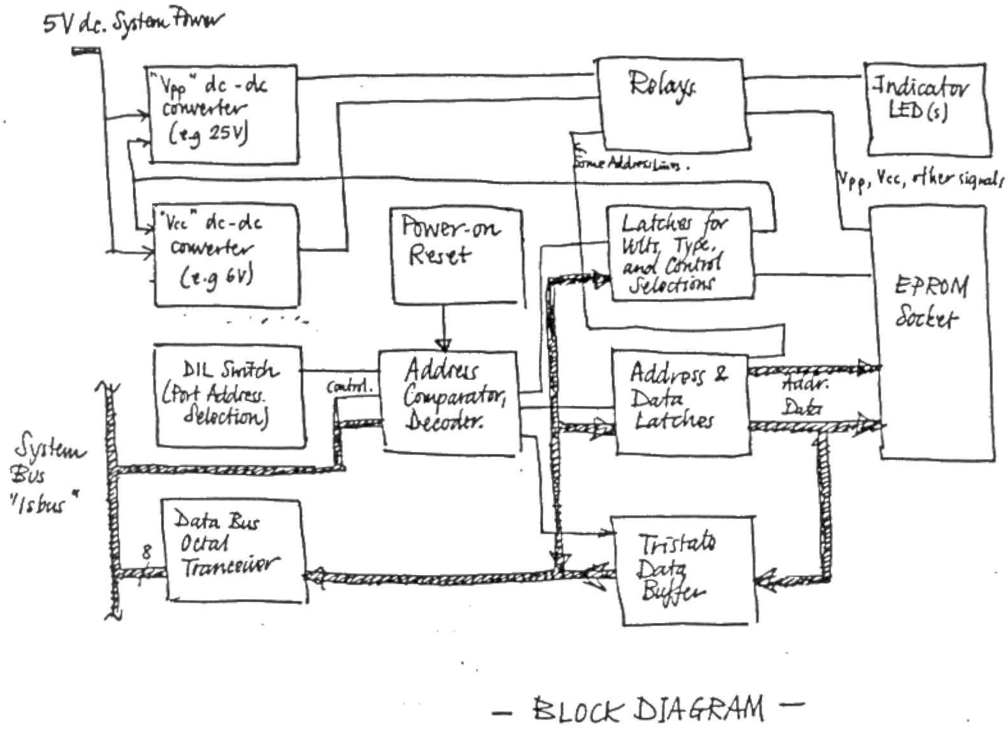
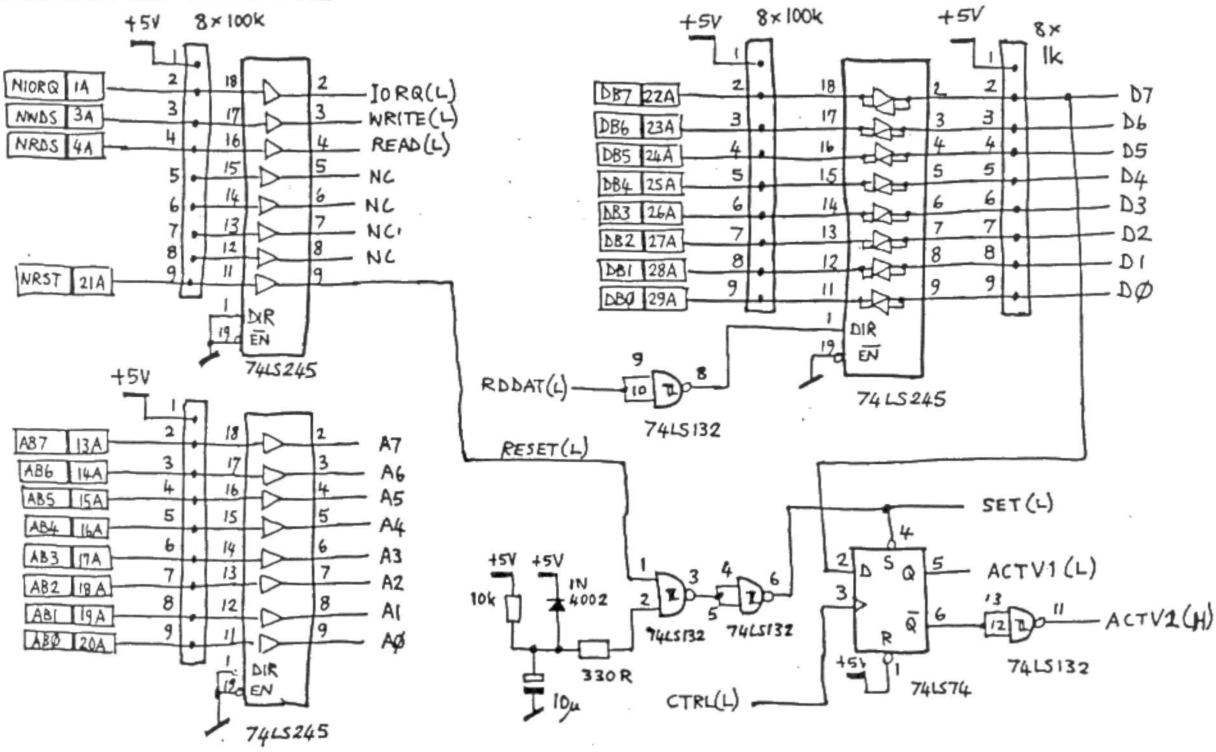
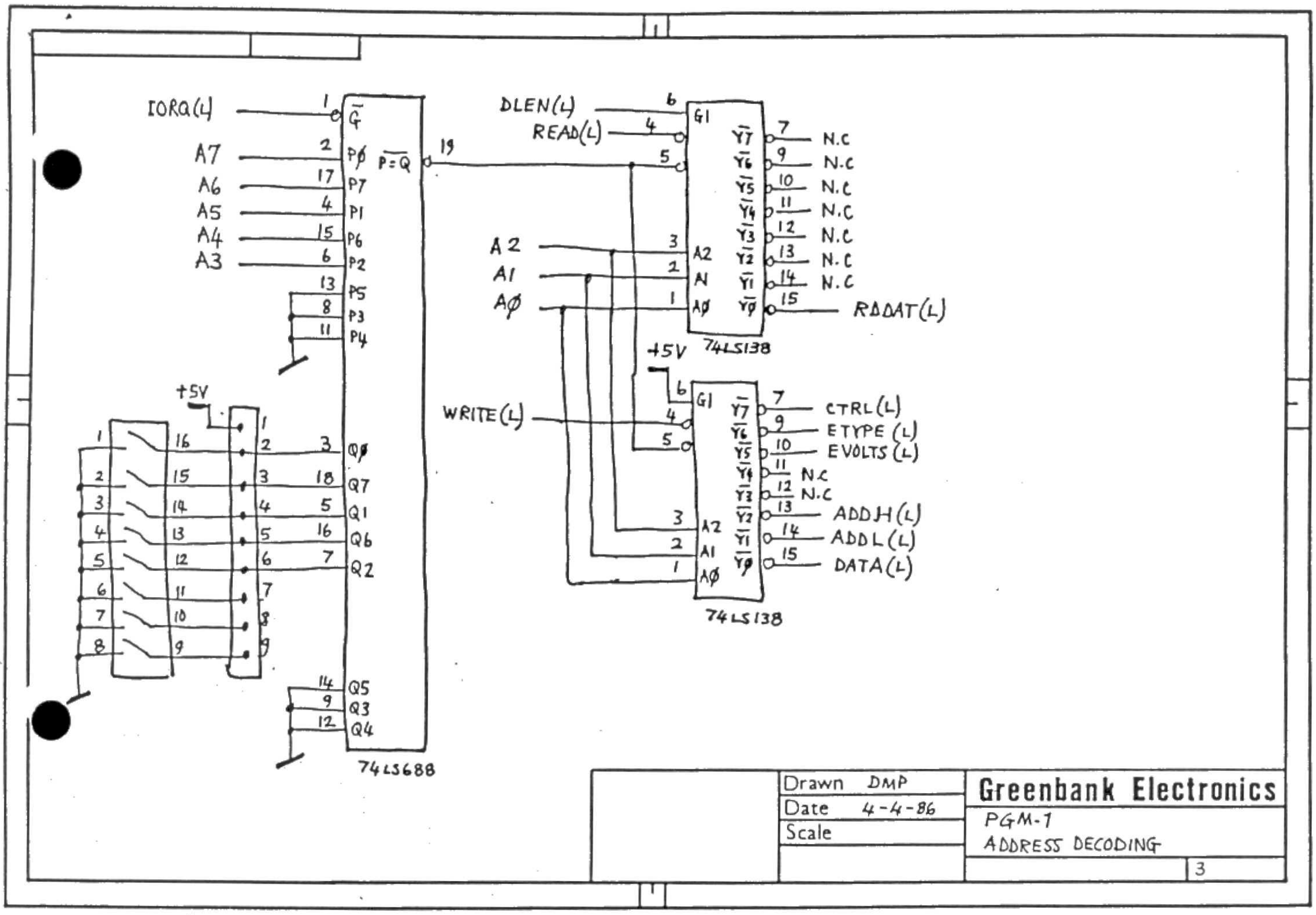


— BLOCK DIAGRAM —

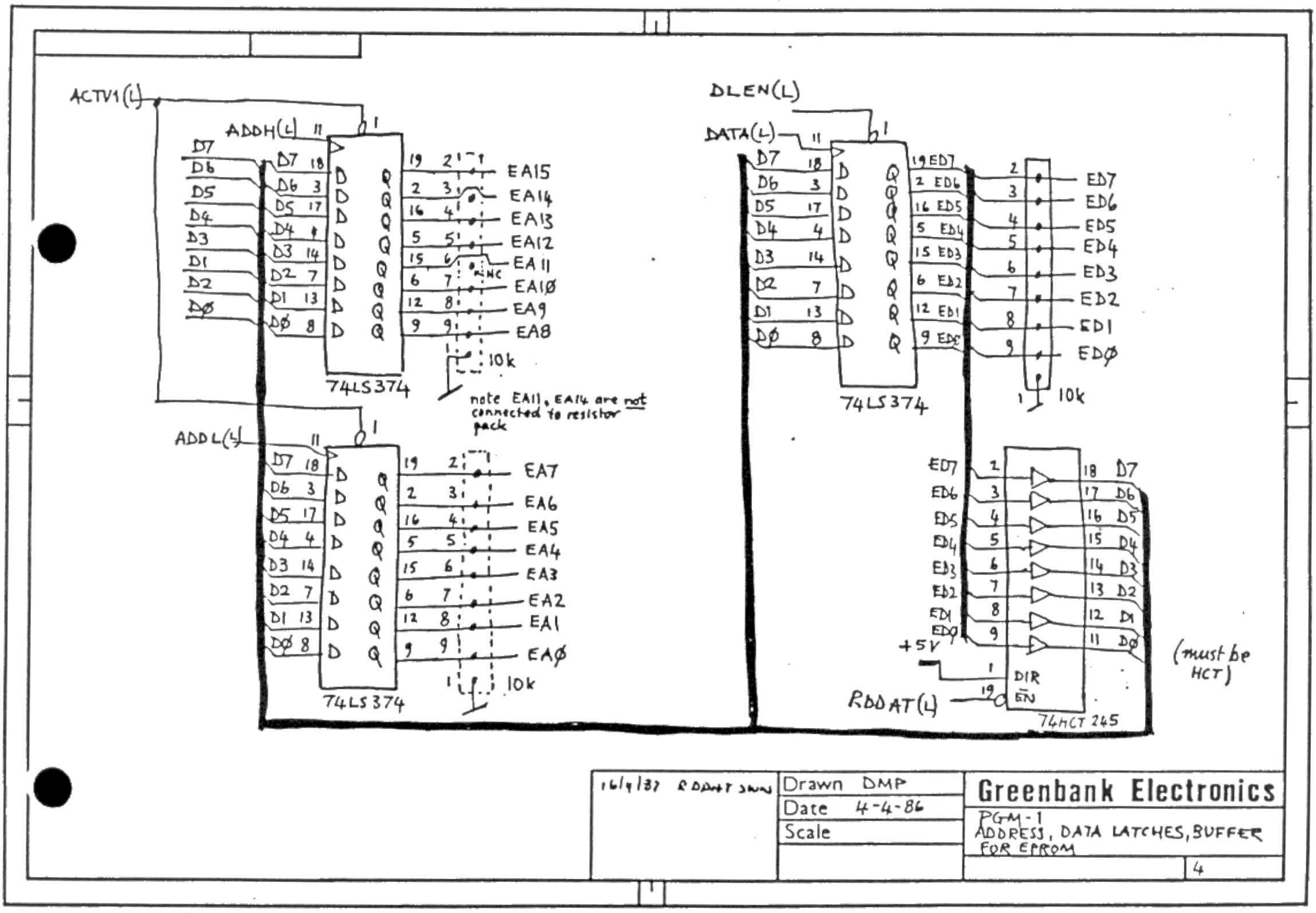
Drawn	DMP	Greenbank Electronics
Date	16-3-86	PGM-7 BLOCK DIAGRAM.
Scale		
		1



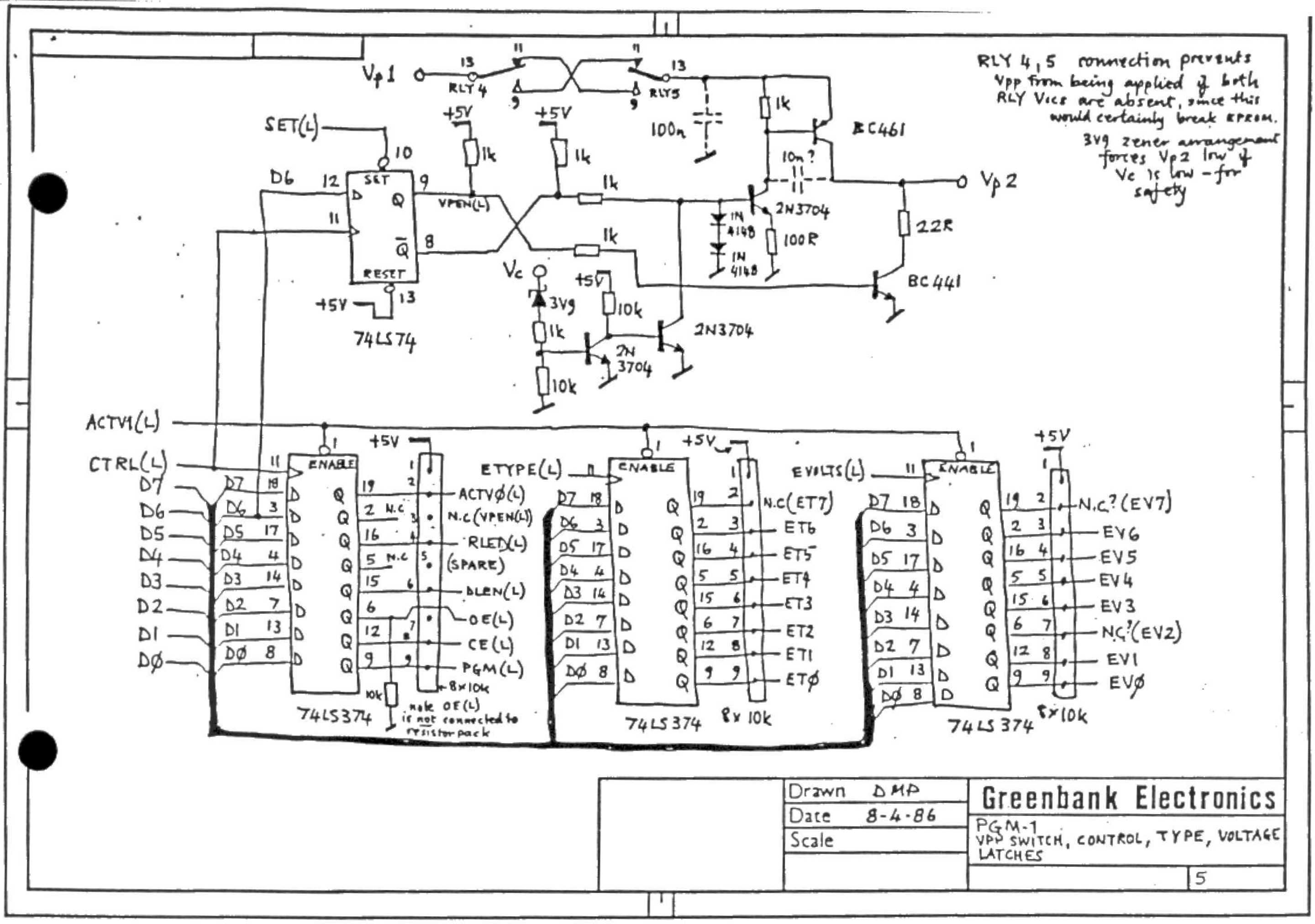
Drawn	DMP	Greenbank Electronics
Date	4-4-86	PGM-7 ADDRESS, DATA, CONTROL BUFFERS
Scale		
		2

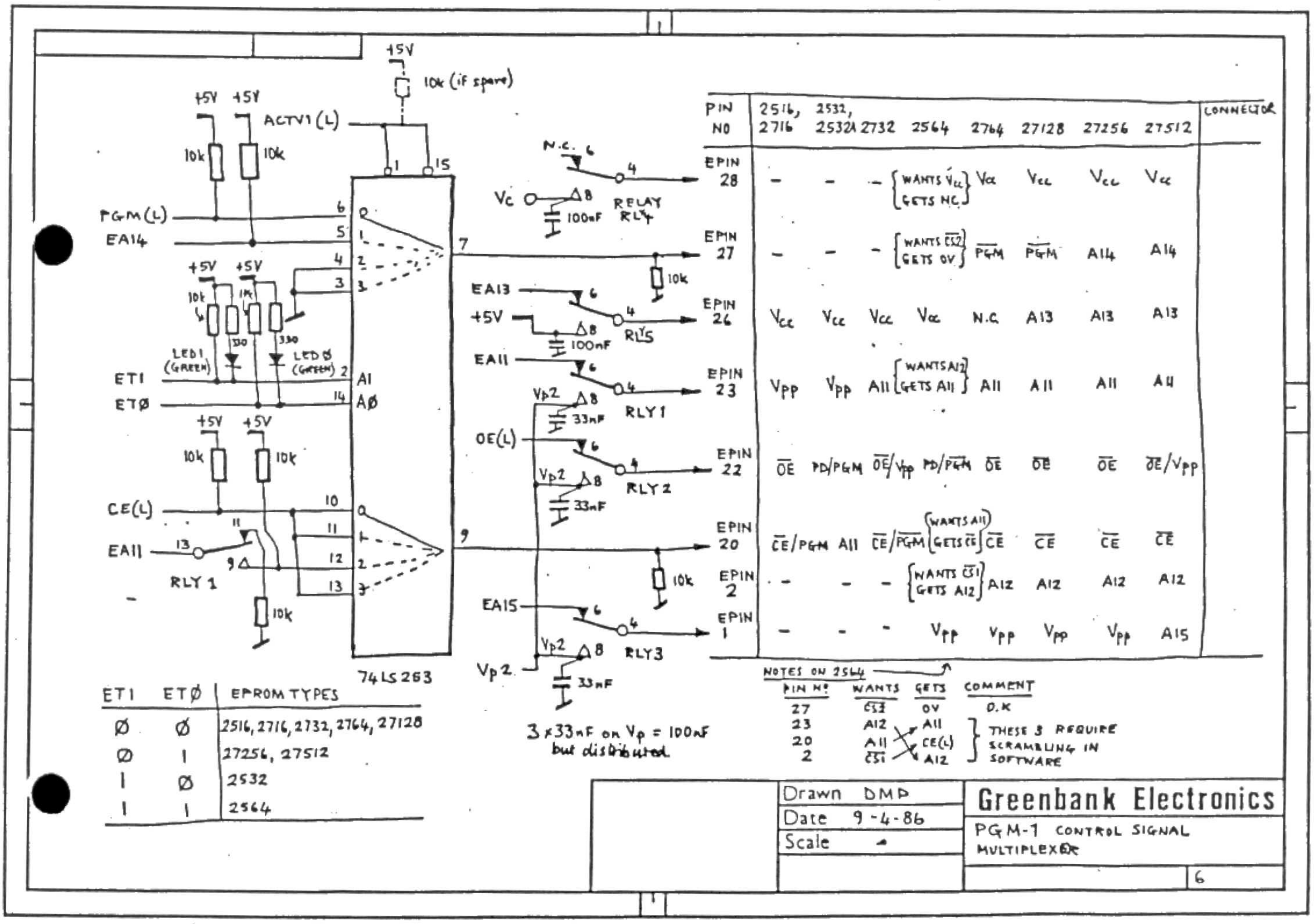


IORQ(L)
A7
A6
A5
A4
A3
P=Q
74LS688
+5V
DLEN(L)
READ(L)
A2
A1
AØ
74LS138
N.C
RDDAT(L)
WRITE(L)
CTRL(L)
ETYPE (L)
EVOLTS (L)
ADDH (L)
ADDL (L)
DATA (L)
Drawn DMP
Date 4-4-86
Scale
Greenbank Electronics
PGM-1
ADDRESS DECODING
3



ACTV1(L)
ADDH(L)
ADDL(L)
74LS374
EA15
EA14
EA13
EA12
EA11
EA10
EA9
EA8
10k
note EA11, EA14 are not connected to resistor pack
EA7
EA6
EA5
EA4
EA3
EA2
EA1
EAØ
DLEN(L)
DATA(L)
ED7
ED6
ED5
ED4
ED3
ED2
ED1
EDØ
+5V
RDDAT(L)
DIR
EN
74HCT 245
(must be HCT)
16/4/87 RDDAT SWN
Drawn DMP
Date 4-4-86
Scale
Greenbank Electronics
PGM-1
ADDRESS, DATA LATCHES, BUFFER FOR EPROM
4



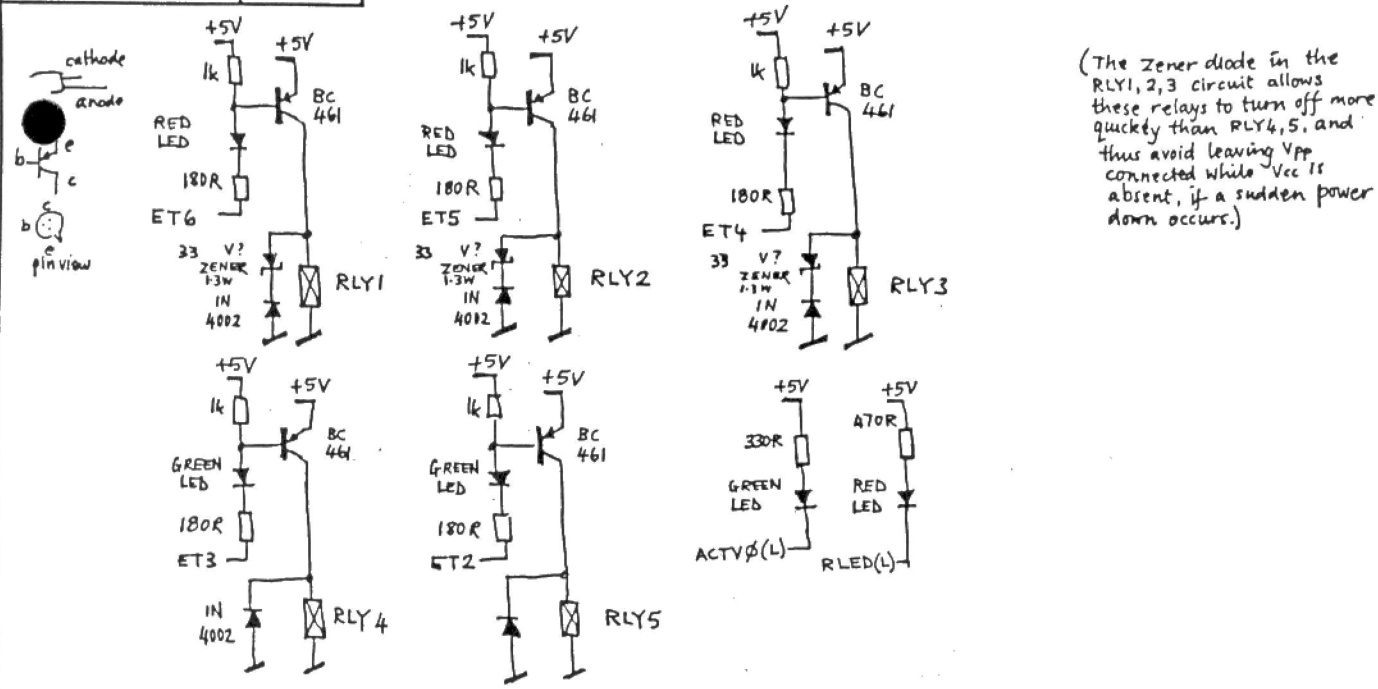


PIN NO	2516, 2716	2532, 2532A	2732	2564	2764	27128	27256	27512
EPIN 28	-	-	-	{WANTS Vcc / GETS NC}	Vcc	Vcc	Vcc	Vcc
EPIN 27	-	-	-	{WANTS CS2 / GETS 0V}	PGM	PGM	A14	A14
EPIN 26	Vcc	Vcc	Vcc	Vcc	N.C	A13	A13	A13
EPIN 23	Vpp	Vpp	A11	{WANTS A12 / GETS A11}	A11	A11	A11	A11
EPIN 22	OE	PD/PGM	OE/Vpp	PD/PGM	OE	OE	OE	OE/Vpp
EPIN 20	CE/PGM	A11	CE/PGM	{WANTS A11 / GETS CE}	CE	CE	CE	CE
EPIN 2	-	-	-	{WANTS CS1 / GETS A12}	A12	A12	A12	A12
EPIN 1	-	-	-	Vpp	Vpp	Vpp	Vpp	A15

NOTES ON 2564

PIN No	WANTS	GETS	COMMENT
27	CS2	0V	O.K
23	A12	A11	THESE 3 REQUIRE SCRAMBLING IN SOFTWARE
20	A11	CE(L)	
2	CS1	A12	

ET1	ETØ	EPROM TYPES
Ø	Ø	2516, 2716, 2732, 2764, 27128
Ø	1	27256, 27512
1	Ø	2532
1	1	2564

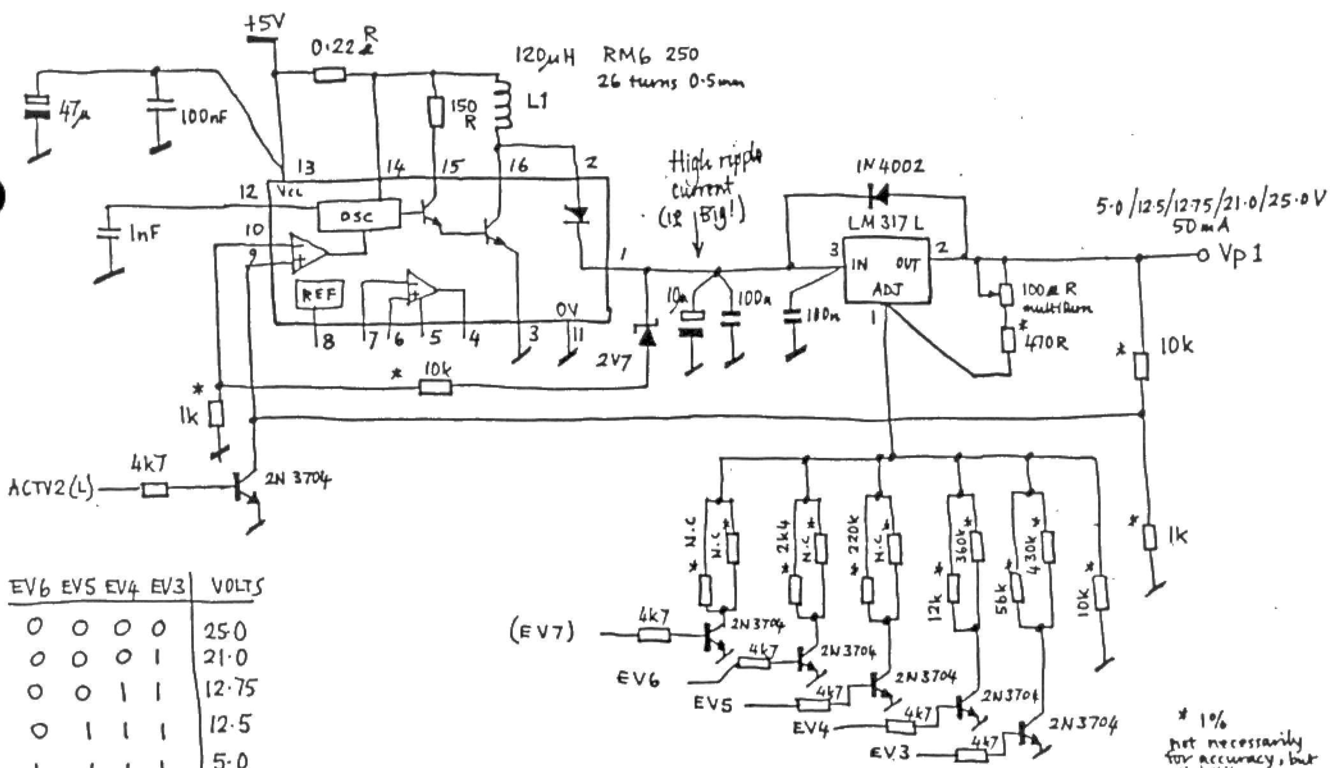


Drawn	DMP
Date	9-4-86
Scale	-

Greenbank Electronics

PGM-1 RELAYS, LEDS

7



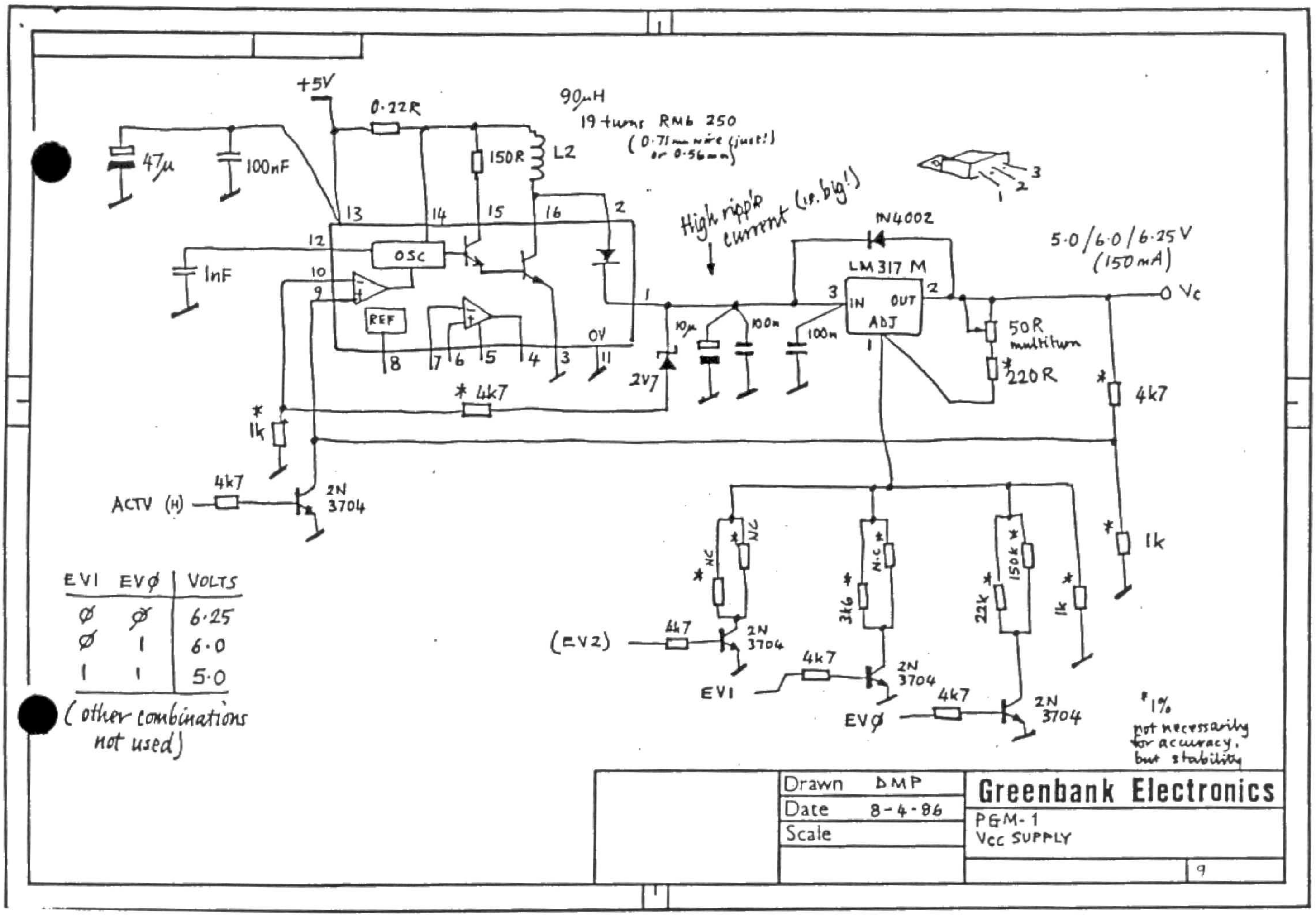
EV6	EV5	EV4	EV3	VOLTS
0	0	0	0	25.0
0	0	0	1	21.0
0	0	1	1	12.75
0	1	1	1	12.5
1	1	1	1	5.0

Drawn	DMP
Date	8-4-86
Scale	-

Greenbank Electronics

PGM-1.
Vpp SUPPLY

8



Signal Name	Ribbon Cable Conductor #
RLED	40
GLED	39
RLED COM	38
GLED COM	37
EPIN2	36
0V	35
EPIN1	34
0V	33
EPIN3	32
EPIN27	31
0V	30
EPIN28	29
0V	28
EPIN26	27
0V	26
EPIN25	25
EPIN4	24
EPIN24	23
EPIN5	22
EPIN6	21

Signal Name	Ribbon Cable Conductor #
0V	20
EPIN23	19
0V	18
EPIN22	17
0V	16
EPIN7	15
EPIN8	14
EPIN21	13
EPIN9	12
EPIN20	11
EPIN0	10
EPIN19	9
EPIN11	8
EPIN18	7
EPIN12	6
EPIN17	5
EPIN13	4
EPIN16	3
EPIN14	2 — 0V
EPIN15	1

Drawn DMP
Date 16-3-86
Scale
Greenbank Electronics
PGM-1

Signal Name	Ribbon Cable Conductor #
EPIN1	34
EPIN2	36
EPIN3	32
EPIN4	24
EPIN5	22
EPIN6	21
EPIN7	15
EPIN8	14
EPIN9	12
EPIN10	10
EPIN11	8
EPIN12	6
EPIN13	4
EPIN14	2
EPIN15	1
EPIN16	3
EPIN17	5

Signal Name	Ribbon Cable Conductor #
EPIN18	7
EPIN19	9
EPIN20	11
EPIN21	13
EPIN22	17
EPIN23	19
EPIN24	23
EPIN25	25
EPIN26	27
EPIN27	31
EPIN28	29
R LED	40
G RED	39
R LED COM	38
G LED COM	37
0V (GRN)	16, 18, 20; 26, 28, 30; 33, 35

Drawn DMP
Date 16-3-86
Scale
Greenbank Electronics
PGM-1